

Established in July 2013 Is a collaboration between FBI Special Agents and Agents from the Department of Public Safety/State Bureau of Investigation. Agents are housed with the FBI and have access to their data bases. Agents investigate various kinds of Internet fraud and

computer intrusions which are reported through the

Internet Crimes Complaint Center (IC3.gov).

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IC3.gov



- Powerful Investigative Tool
- Overlapping Complaints
- Suspect info (Email, address, phone)
- Investigator sees bigger picture
- Map out criminal organization
- Identify unwitting participants in scam

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IC3 Stats 2016 State # of Complaints Loss Amount Utah 2,296 \$7,797,400 California 39,494 \$380,744,577 Texas 21,432 \$77,383,846





Information Sharing Analysis Centers

Automotive
Aviation
Communications
Defense
Natural Gas
Electricity
Emergency Management
Financial Services
IT
Maritime
Multi-State SLTT Govt.

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Infragard

Is a partnership between FBI and the private sector. It is an association of persons who represent businesses, academic institutions, state and local law enforcement agencies, and other participants dedicated to sharing information and intelligence to prevent hostile acts against the U.S.

The Infrastructure is owned and operated by private industry.

Therefore the protection of the nation's infrastructure cannot be accomplished by the Federal Govt. alone.



350 of our nation's Fortune 500 have a representative in Infragard.

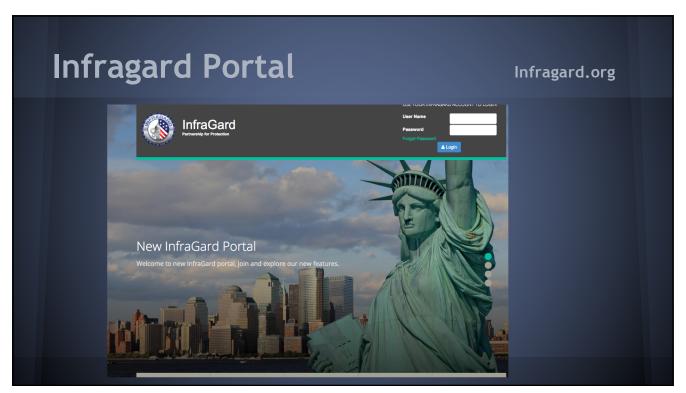
Critical infrastructure are physical and cyber-based systems that are essential to the minimum operations of the economy and the government (as defined in Presidential Decision Directive/NSC 63, May 1998).

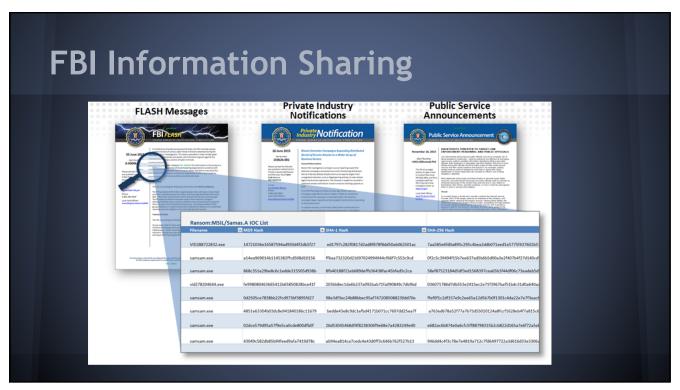
16 Critical Infrastructure Sectors

Chemical
Financial
Commercial Facilities
Food and Agriculture
Communications
Govt. Facilities
Healthcare and Public health

Dams
Information Technology
Defense Industrial Base
Nuclear Reactors, Materials
and Waste
Emergency Services
Transportation Systems
Energy

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Title 18 U.S.C 1030

- Computer Fraud and Abuse Act (CFAA)
 - Outlaws conduct that victimizes computer systems.
 - Cyber security law.
 - Protects federal computers, bank computers, and computers connected to the Internet.
 - Shields them from trespassing, threats, damage, espionage, and from being corruptly used as instruments of Fraud.

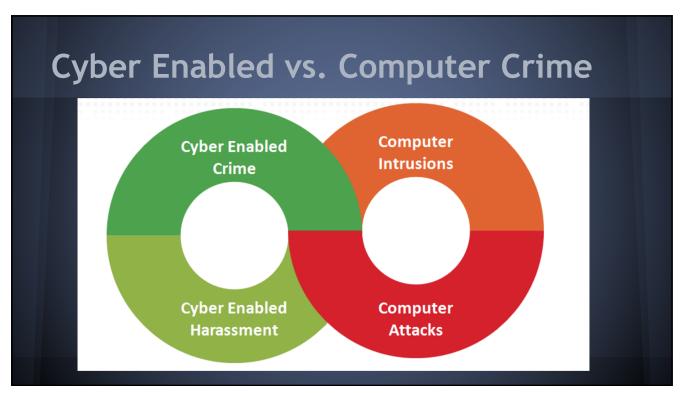
76-6-703

- Computer Crimes and Penalties
 - A person who without authorization gains or attempts to gain access to and alters, damages, destroys, discloses, or modifies any computer, computer network, computer property, computer system, computer program, computer data or software, and thereby causes damage to another, or obtains money, property, information, or a benefit for any person without legal right.

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Cyber Enabled

Business Email Compromise Purchase Order Fraud Classified Ad Fraud Lottery Scams Romance Scams W-2 Fraud

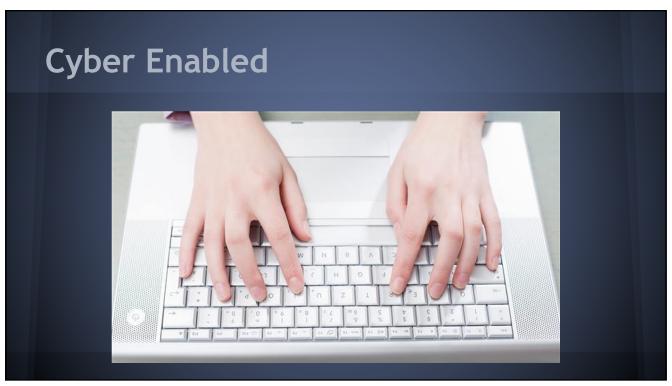
Computer Crimes

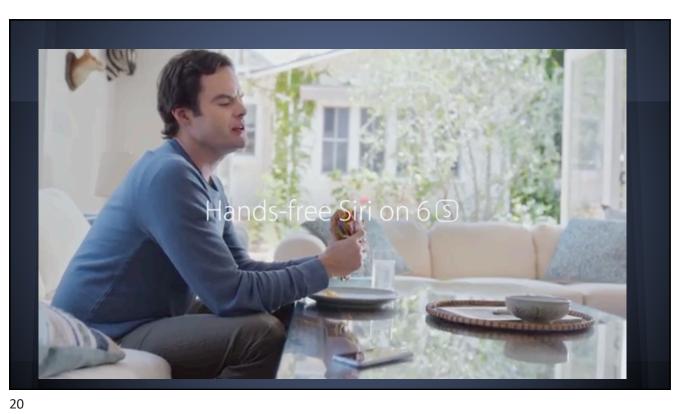
Ransomware
DDoS
Theft through Intrusion
Website Defacement
Data Theft
DOXing

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Most Common Case Types Investigated

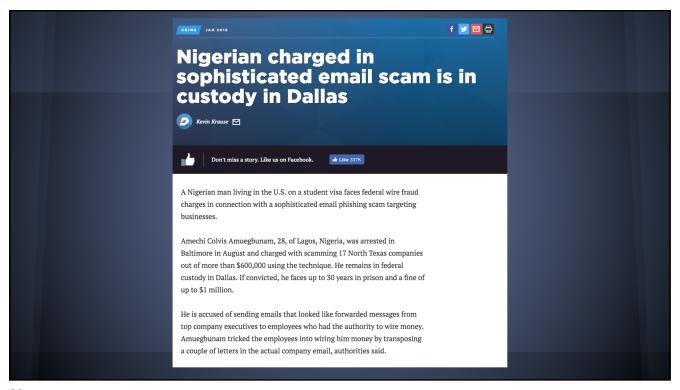
- Business E-mail Compromise (BEC)
- Purchase Order Fraud
- Online Marketplace (KSL, ebay, craigslist, etc)
- Ransomware
- Other financially motivated computer intrusions.



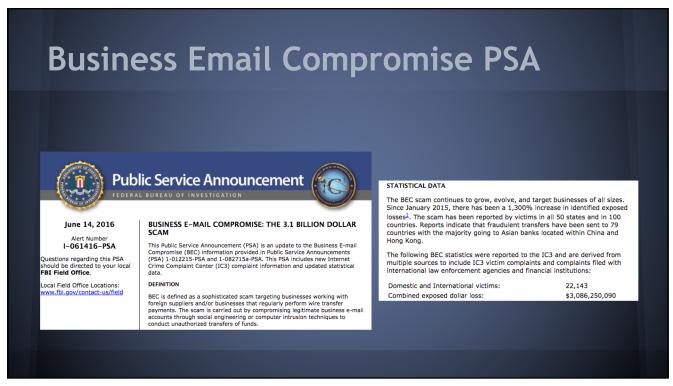




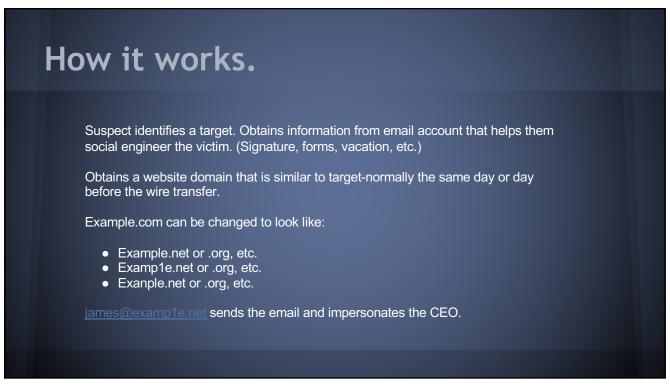


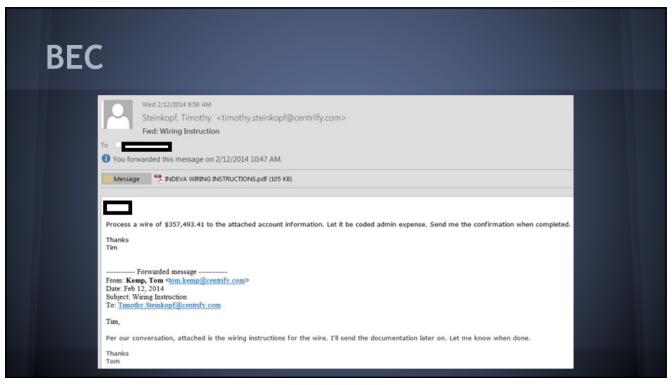












Where does \$\$ go?

Unwitting Facilitators
Romance Scams
Facebook, Dating Apps, Etc.

Excuses

Divorce

Foreign Country-Govt. Regulations

Money is then transferred again and again.

MoneyGram, Western Union, Wire, Gift Cards

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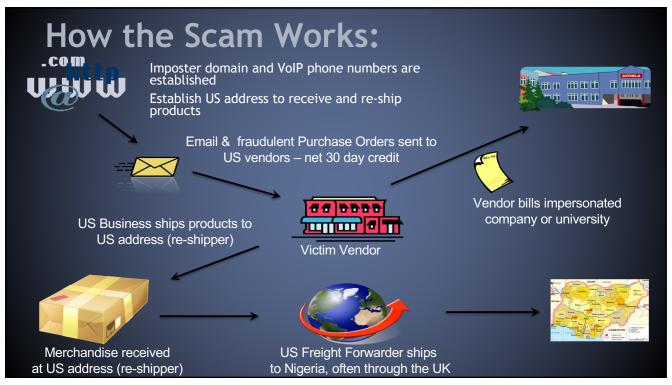
BEC Mitigation

- Have a policy to make contact over phone or in person with requester.
- · Change in direct deposit info? Call.
- Do not make it easy. Do not post forms on Internet.

PO Fraud

- University or corporate identities are impersonated to obtain merchandise on credit.
- Merchandise is shipped before the victim vendor discovers the fraud.
- Scammers operate primarily from Nigeria or outside of U.S. Jurisdiction.

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What's the Connection

PO Fraud + Work From Home Scams BEC Scams + Romance Scams

Victims are targeted after uploading resumes

- Monster
- LinkedIn
- Indeed
- Career Builder
- Dice
- Zip Recruiter

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Jobs Offered by Scammers are...

- Reshipping Managers
- Package processing
- Package compliance officer
- Logistics Coordinator

Payment by the Shipment

Western Union MoneyGram
Other Wire Transfer

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Encouraged to...

- Find Office Space
- Find Storage Units
 Not to tell others what they do

What can be done?

Find out where packages were sent and get them returned. Disrupt organization by preventing shipment. Return hundreds of thousands of dollars to local victim business.

Even make arrests in Nigeria.

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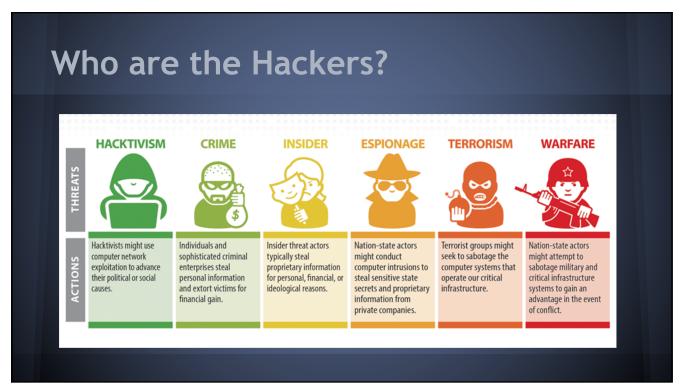


Remediation and Mitigation

- Do not do business via text message.
- Do not click links sent by buyer. Always navigate to site by entering the address. Ebay/Paypal scams.
- Be cautious of overpayment offers.

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Computer Intrusions Mark Mar



Computer Intrusions

- Malicious actors access and maintain control over a victim's computer or vulnerable device.
- The attacker monitors the victim's actions and steals sensitive information.
- Often this access was gained with a phishing email that downloaded malware which gave attacker access to computer and other accounts.



Payroll Intrusion

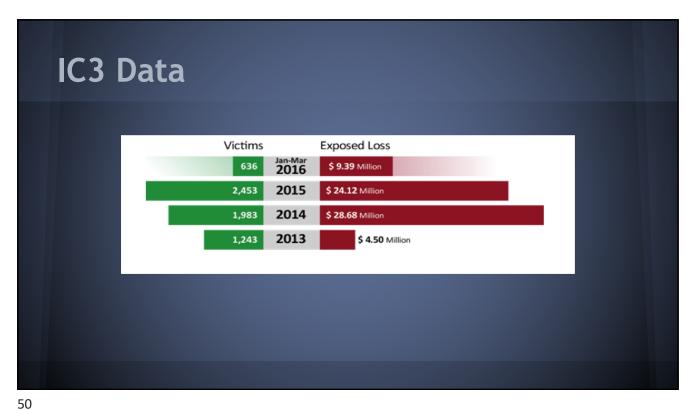
- Local Company Employees Didn't Get Paid
- Payroll company was notified and identified DD was modified.
- Paychecks went to various bank around the nation.
- IP addresses that made changes to payroll DD info were identified
- Legal Process Served and analyzed.
- Subscriber info came back to several business. FL & AL
- Business owners interviewed.
- Windows XP computers were still being used.

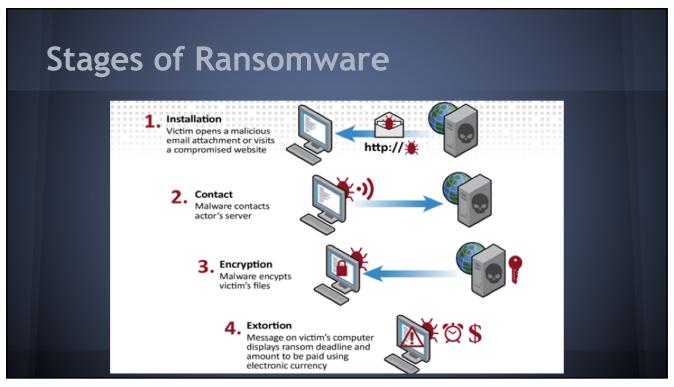


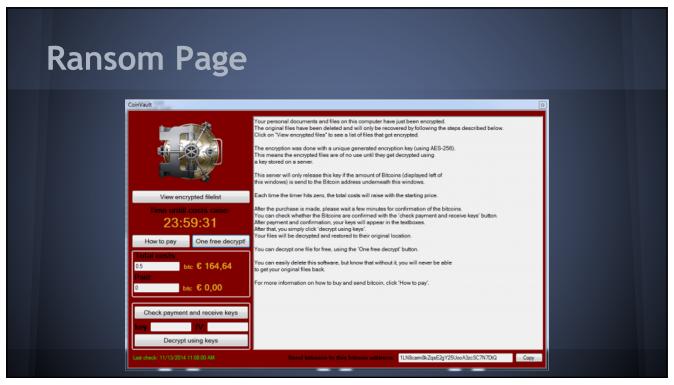
Remediation and Mitigation

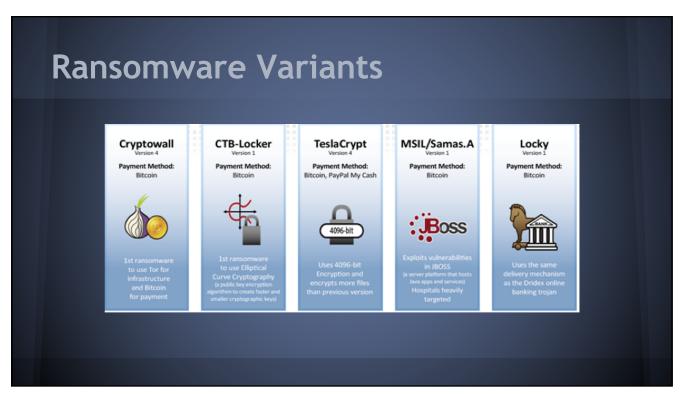
- Keep firewalls turned on.
- Install and update antivirus.
- Install or update antispyware.
- Keep OS up to date.
- Turn off computer.













Mitigation

Back up files
Don't enable macros
Microsoft Office Viewers
Don't open unsolicited attachments
Don't stay logged in as administrator
Patch software regularly
Train Employees
Segment Company Network